

WHAT IS CLAIMED IS:

1. A method for surface treatment of an interior of a hollow body, comprising:

dry cutting the interior of the hollow body using a tool having a surface profile, wherein a portion of the material forming the interior is removed which produces a surface with a certain structure or quality.

2. The method of claim 1, wherein the hollow body is an engine cylinder bore prepared for applying a thermal layer.

3. The method of claim 1, wherein the dry cutting is performed by drilling, brushing, knurling, circular milling or combinations thereof.

4. The method of claim 1, wherein the tool comprises cubic boron nitride, polycrystalline diamond, a coated or uncoated hard metal or a ceramic.

5. The method of claim 4, wherein the tool comprises hard metal comprises titanium carbide or tungsten carbide.

6. The method of claim 4, wherein the tool comprises ceramic silicon nitride or aluminum oxide.

7. The method of claim 1, wherein the tool comprises one or more cutting devices with a defined surface profile.

8. The method of claim 1, wherein the tool comprises one or more cutting devices with a defined surface profile.

9. The method of claim 7, wherein the tool comprises steel wire with or without a coating or a hard material with a undefined surface profile.

10. The method of claim 7, wherein the tool is an indexing insert.

11. The method of claim 7, wherein the tool is fitted with a plurality of indexing inserts.

12. The method of claim 11, wherein the tool is fitted with a cutting spindle.

13. The method of claim 1, wherein the tool is fitted with one or more rollers, wherein the roller comprises coated or uncoated hard metal, ceramic or MSS.

14. A combustion engine cylinder with a bore made by the method of Claim 2.

15. A method for surface treatment of the interiors of hollow bodies, comprising:

dry cutting the interior of the hollow body using a tool having a surface profile, wherein a portion of the material forming the interior is removed and produces a surface with a predetermined quality structure.

16. A method according to Claim 14, further comprising applying a layer to the surface after cutting.

17. The method of claim 15, wherein the layer is a tribological layer.

18. The method of claim 15, wherein the layer is thermally sprayed on the surface.

19. The method of claim 15, wherein said dry cutting is performed with at most 150 ml/h of lubricant applied to the interior of the hollow body.

20. The method of claim 15, wherein the hollow body is a combustion engine cylinder bore.

21. The method of claim 15, wherein the surface profile is a defined surface profile.

22. The method of claim 15,, wherein the surface profile is an undefined surface profile.

23. A combustion engine cylinder with a bore made by the method of Claim 18.